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 Patent and Trademark Office
 Washington, D.C. 20231
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U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
09/582,397	Shizuo Akira	49862

 DIKE, BRONSTEIN, ROBERTS & CUSHMAN
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INTERNATIONAL APPLICATION NO.	
PCT/JP99/05916	
I.A. FILING DATE	PRIORITY DATE
10/26/1999	10/26/1998

CONFIRMATION NO. 1566

371 FORMALITIES LETTER



OC000000007425293

Date Mailed: 02/07/2002

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated Office (37 CFR 1.494):

- U.S. Basic National Fee
- Priority Document
- Assignee Statement
- Biochemical Sequence Diskette
- Biochemical Sequence Listing
- Claims
- Copy of references cited in ISR
- Copy of the International Application
- Copy of the International Search Report
- Drawings
- Information Disclosure Statements
- Initial Application Filing Fees
- Oath or Declaration
- Oath or Declaration
- Original Specification
- Request for Immediate Examination

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

The following items **MUST** be furnished within the period set forth below:

- The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):
 - The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).
 - **APPLICANT MUST PROVIDE:**
 - An initial or substitute computer readable form (CRF) of the "Sequence Listing."
 - A statement that the contents of the paper or compact disc and the computer readable form are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b) or 1.825(d).

The following items **MUST** be furnished within the period set forth below:

- The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):
 - The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).
 - **APPLICANT MUST PROVIDE:**
 - An initial or substitute computer readable form (CRF) of the "Sequence Listing."
 - A statement that the contents of the paper or compact disc and the computer readable form are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b) or 1.825(d).
- For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:
 - For Rules Interpretation, call (703) 308-4216
 - To Purchase PatentIn Software, call (703) 306-2600
 - For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov
- For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:
 - For Rules Interpretation, call (703) 308-4216
 - To Purchase PatentIn Software, call (703) 306-2600
 - For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov
 - The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

PAULETTE R KIDV

Telephone: (703) 305-3656

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
09/582,397	PCT/JP99/05916	49862

FORM PCT/DO/EO/916 (371 Formalities Notice)

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/582397

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY P

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 ✓ Misaligned Amino
 Numbering The numbering under each 3rd amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence
 (1) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (ii) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/582,397

DATE: 11/14/2001
TIME: 14:17:30

Input Set : A:\49862seq.txt
Output Set: N:\CRF3\11142001\I582397.raw

3 <110> APPLICANT: Japan Science And Technology Corporation
5 <120> TITLE OF INVENTION: Identification of Novel Substrate I-TRAF of IKK-i Kinase
7 <130> FILE REFERENCE: JA901491
--> 9 <140> CURRENT APPLICATION NUMBER: US/09/582,397
--> 9 <141> CURRENT FILING DATE: 2001-10-09
--> 9 <160> NUMBER OF SEQ ID NOS: 4

Does Not Comply
Corrected Diskette Needed

ERRORS SEQUENCES

53 <210> SEQ ID NO: 2
54 <211> LENGTH: 716
55 <212> TYPE: PRT
56 <213> ORGANISM: Human
--> 57 <400> SEQUENCE: 2

58 Met Gln Ser Thr Ala Asn Tyr Leu Trp His Thr Asp Asp Leu Leu	15
59 Gly Gln Gly Ala Thr Ala Ser Val Tyr Lys Ala Arg Asn Lys Lys	30
60 Ser Gly Glu Leu Val Ala Val Lys Val Phe Asn Thr Thr Ser Tyr	45
61 Leu Arg Pro Arg Glu Val Gln Val Arg Glu Phe Glu Val Leu Arg	60
62 Lys Leu Asn His Gln Asn Ile Val Lys Leu Phe Ala Val Glu Glu	75
63 Thr Gly Gly Ser Arg Gln Lys Val Leu Val Met Glu Tyr Cys Ser	90
64 Ser Gly Ser Leu Leu Ser Val Leu Glu Ser Pro Glu Asn Ala Phe	105
65 Gly Leu Pro Glu Asp Glu Phe Leu Val Val Leu Arg Cys Val Val	120
66 Ala Gly Met Asn His Leu Arg Glu Asn Gly Ile Val His Arg Asp	135
67 Ile Lys Pro Gly Asn Ile Met Arg Leu Val Gly Glu Glu Gly Gln	150
68 Ser Ile Tyr Lys Leu Thr Asp Phe Gly Ala Ala Arg Glu Leu Asp	165
69 Asp Asp Glu Lys Phe Val Ser Val Tyr Gly Thr Glu Glu Tyr Leu	180
70 His Pro Asp Met Tyr Glu Arg Ala Val Leu Arg Lys Pro Gln Gln	195
71 Lys Ala Phe Gly Val Thr Val Asp Leu Trp Ser Ile Gly Val Thr	210
72 Leu Tyr His Ala Ala Thr Gly Ser Leu Pro Phe Ile Pro Phe Gly	225
73 Gly Pro Arg Arg Asn Lys Glu Ile Met Tyr Arg Ile Thr Thr Glu	240
74 Lys Pro Ala Gly Ala Ile Ala Gly Ala Gln Arg Arg Glu Asn Gly	255
75 Pro Leu Glu Trp Ser Tyr Thr Leu Pro Ile Thr Cys Gln Leu Ser	270
76 Leu Gly Leu Gln Ser Gln Leu Val Pro Ile Leu Ala Asn Ile Leu	285
77 Glu Val Glu Gln Ala Lys Cys Trp Gly Phe Asp Gln Phe Phe Ala	300
78 Glu Thr Ser Asp Ile Leu Gln Arg Val Val Val His Val Phe Ser	315
79 Leu Ser Gln Ala Val Leu His His Ile Tyr Ile His Ala His Asn	330
80 Thr Ile Ala Ile Phe Gln Glu Ala Val His Lys Gln Thr Ser Val	345
81 Ala Pro Arg His Gln Glu Tyr Leu Phe Glu Gly His Leu Cys Val	360
82 Leu Glu Pro Ser Val Ser Ala Gln His Ile Ala His Thr Thr Ala	375
83 Ser Ser Pro Leu Thr Leu Phe Ser Thr Ala Ile Pro Lys Gly Leu	390
84 Ala Phe Arg Asp Pro Ala Leu Asp Val Pro Lys Phe Val Pro Lys	405
85 Val Asp Leu Gln Ala Asp Tyr Asn Thr Ala Lys Gly Val Leu Gly	420
86 Ala Gly Tyr Gln Ala Leu Arg Leu Ala Arg Ala Leu Leu Asp Gly	435
87 Gln Glu Leu Met Phe Arg Gly Leu His Trp Val Met Glu Val Leu	450
88 Gln Ala Thr Cys Arg Arg Thr Leu Glu Val Ala Arg Thr Ser Leu	465
89 Leu Tyr Leu Ser Ser Ser Leu Gly Thr Glu Arg Phe Ser Ser Val	480

② See end of sequence error

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/582,397

DATE: 11/14/2001

TIME: 14:17:30

Input Set: \49862seq.txt

Output Set: N:\CRF3\11142001\I582397.raw

90	Ala Gly Thr Pro Glu Ile Gln Glu Leu Lys Ala Ala Ala Glu Leu	495
91	Arg Ser Arg Leu Arg Thr Leu Ala Glu Val Leu Ser Arg Cys Ser	510
92	Gln Asn Ile Thr Glu Thr Gln Glu Ser Leu Ser Ser Leu Asn Arg	525
93	Glu Leu Val Lys Ser Arg Asp Gln Val His Glu Asp Arg Ser Ile	540
94	Gln Gln Ile Gln Cys Cys Leu Asp Lys Met Asn Phe Ile Tyr Lys	555
95	Gln Phe Lys Lys Ser Arg Met Arg Pro Gly Leu Gly Tyr Asn Glu	570
96	Glu Gln Ile His Lys Leu Asp Lys Val Asn Phe Ser His Leu Ala	585
97	Lys Arg Leu Leu Gln Val Phe Gln Glu Glu Cys Val Gln Lys Tyr	600
98	Gln Ala Ser Leu Val Thr His Gly Lys Arg Met Arg Val Val His	615
99	Glu Thr Arg Asn His Leu Arg Leu Val Gly Cys Ser Val Ala Ala	630
100	Cys Asn Thr Glu Ala Gln Gly Val Gln Glu Ser Leu Ser Lys Leu	645
101	Leu Glu Glu Leu Ser His Gln Leu Leu Gln Asp Arg Ala Lys Gly	660
102	Ala Gln Ala Ser Pro Pro Pro Ile Ala Pro Tyr Pro Ser Pro Thr	675
103	Arg Lys Asp Leu Leu Leu His Met Gln Glu Leu Cys Glu Gly Met	690
104	Lys Leu Leu Ala Ser Asp Leu Leu Asp Asn Asn Arg Ile Ile Glu	705
--> 105	Arg Leu Asn Arg Val Pro Ala Pro Pro Asp Val ***	716

Delete
End of file
inserted
codons

align
end of
numbers

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/582,397

DATE: 11/14/2001

TIME: 14:17:31

Input Set \49862seq.txt

Output Set: N:\CRF3\11142001\I582397.raw

:9 M:270 C: Current Application Number differs, Replaced Current Application No
:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
:15 M:283 W: Missing Blank Line separator, <400> field identifier
:57 M:283 W: Missing Blank Line separator, <400> field identifier
:105 M:252 E: No. of Seq. differs, <211>LENGTH:Input:716 Found:0 SEQ:2
:111 M:283 W: Missing Blank Line separator, <400> field identifier
:166 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:167 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:168 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:169 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:170 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:171 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:172 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:173 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:174 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:175 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:176 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:177 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:178 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:179 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:180 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:181 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:182 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:183 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:184 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:185 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:186 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:187 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:188 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:189 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:190 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:191 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:192 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
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:195 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:196 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:197 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:198 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:199 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:200 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:201 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:202 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:203 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:204 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:205 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:206 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:207 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/582,397

DATE: 11/14/2001

TIME: 14:17:31

Input Set : \49862seq.txt

Output Set: N:\CRF3\11142001\I582397.raw

:208 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:209 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:210 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:211 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:212 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:213 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:215 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
:9 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (4) Counted (3)

STATISTICS SUMMARY

PATENT APPLICATION: US/09/582,397

DATE: 11/14/2001

TIME: 14:17:31

Input Set : \49862seq.txt

Output Set: N:\CRF3\11142001\I582397.raw

Application Serial Number: US/09/582,397

Alpha or Numeric: Numeric

Application Class:

Application File Date: 10-09-2001

Pat Unit: PCT09

Software Application:

Total Number of Sequences: 3

Total Nucleotides: 5064

Total Amino Acids: 0

Number of Errors: 2

Number of Warnings: 52

Number of Corrections: 2

MESSAGE SUMMARY

03 E: 1 (No. of Seq. differs)

02 E: 1 (No. of Seq. differs)

09 W: 49 (Allowed number of lines exceeded)

70 C: 1 (Current Application Number differs)

71 C: 1 (Current Filing Date differs)

03 W: 3 (Missing Blank Line separator)